SPECTRUM®

Event Log
User's Guide

CABLETRON SYSTEMS

The Complete Networking Solution™

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Preface

Who Should Read This Guide

Welcome to the ***Event Log User's Guide.*** You should read this guide if you are going to monitor SpectroSERVER events.

Prior to using the Event Log, you should be familiar with basic SPECTRUM concepts as described in the following documents:

Getting Started with SPECTRUM for Operators

The Operator's area of the SPECTRUM Documentation Roadmap.

What Is in This Guide

This guide shows you how to use Event Log to monitor SPECTRUM events. The guide is organized topically as follows:

Chapter	Description
Chapter 1 **Introduction**	Introduces the Event Log and describes installation and start-up processes when using either a remote or locally installed SpectroSERVER, and provides view access methods from the command line and from SpectroGRAPH menus.
Chapter 2 **Managing Events with Event Log**	Describes the main Event Log window and how to best use the menu options, and panel information to manage events.

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Chapter 1

Introduction

This chapter details how to use Event Log in conjunction with SpectroGRAPH and as a stand-alone application.

The Event Log provides a fault isolation tool that allows network administrators to determine what network events are occurring and allows them to access this information quickly. It maintains an historical logged database of all network events. The Event Log provides an event sorting mechanism, provides a level of online help, and scrolls out event information with the option of stopping the list to view a user-defined time range of events.

The Event Log provides the following functionality:

- SpectroSERVER event handling to display event information across a single landscape.
- Sorting of events by one or more sorting types, including: model name, model type name, event code, user name, date and time, and event message.
- Context-sensitive help and on-line documentation.
- Improved event display to allow viewing of a user defined range of events.
- Print mechanism to make a hard copy of the event log.
- The ability to access and display archived events seamlessly as if the events were not archived.

Operating the Event Log via a Remote VNM

The Event Log can be run from your local SPECTRUM directory with SpectroSERVER and SpectroGRAPH installed on your local drive, or in a stand-alone mode using a remote SpectroSERVER. If you install just the Event Log locally and use it in a stand-alone mode, you must use command line instructions to set the proper environment variables and start the application.

Installing Only the Event Log

To install only the Event Log, use the normal install process as detailed in the *SPECTRUM Installation Guide*. In this case, you would start the `install.cd` command and enter an extraction key containing only the Event Log. Note that under this scenario, the "Select all SpectroSERVER components" and "Select all SpectroGRAPH components" options in the Installation Configuration window will be grayed out, and only the "Select all external applications" option will be available.

Setting the Display Environment

If you are operating the Event Log without SpectroGRAPH, you must set up your environment before starting the application.

In your SPECTRUM directory, change directories to the `Install-Tools` directory. Within this directory are the `setup.csh` (for C shell) and `setup.ksh` (for Korn shell) files. You need to "source" the appropriate file, depending on which shell you are using, by typing the following from the `Install-Tools` directory:

```
source setup.csh
```

or

```
. setup.ksh
```

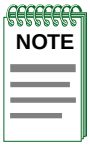
Example: ***<SPECTRUM directory path>/Install-Tools*** `source setup.csh`

Starting the Event Log from the Command Line

To start the Event Log from the command line, in the SPECTRUM directory, change directories to the `SG-Support/CsExtProcess` directory (which contains the Event Log executable) and type the following:

```
EventLog -vnm <vnm name>
```

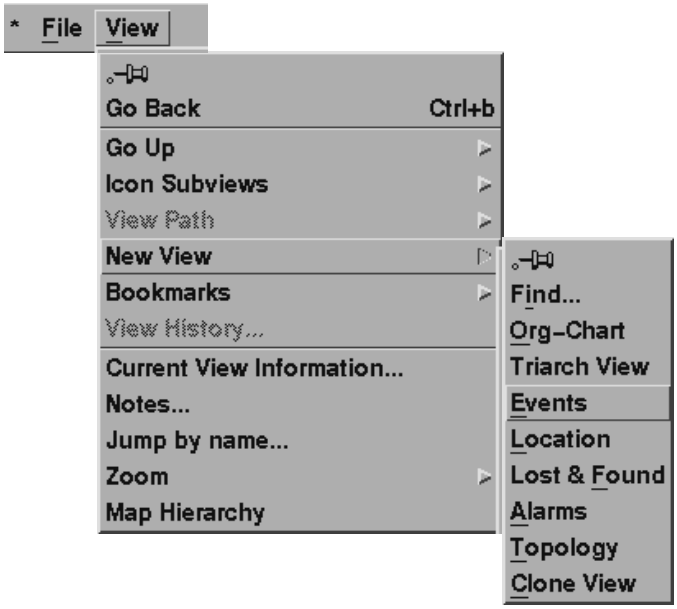
Example: ***<SPECTRUM directory path>/SG-Support/CsExtProcess***
`EventLog-vnm <vnm name>`



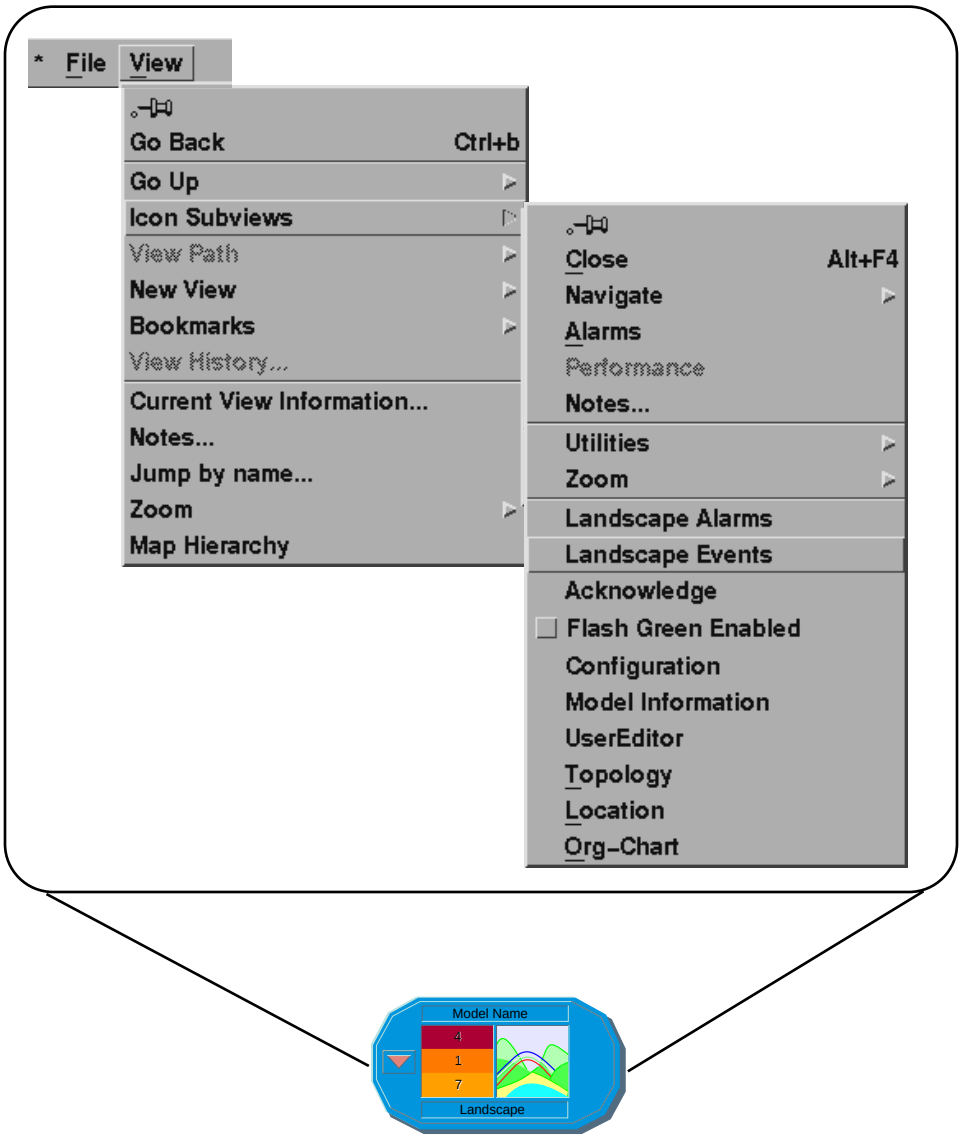
If the error message, "Location on <vnm name>: no model in SpectroSERVER for user." is encountered, it could mean there is no user model for you in the database, and you should contact your network administrator.

Starting the Event Log from SpectroGRAPH

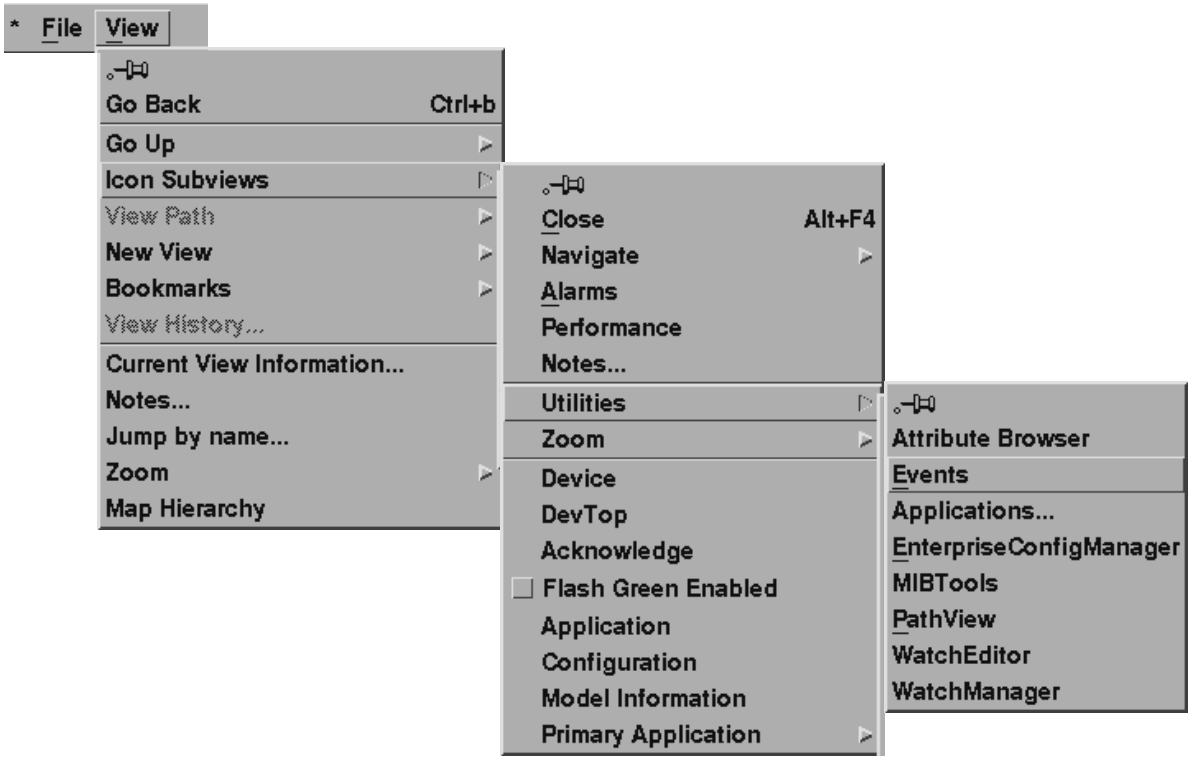
To access the Event Log from a SpectroGRAPH menu, select **View** > **New View** -> **Events**. This will display events for the local landscape SpectroGRAPH is connected to.



To access the Event Log from a Landscape model, highlight the Landscape icon and select **View** -> **Icon Subviews**-> **Landscape Events**. This will display events for only that landscape.



To access the Event View for a specific model or models, click on the model icon to highlight it (use the Shift key to select multiple models) and select **View** -> **Icon Subviews** -> **Events.** This will bring up Event Log against only the selected models, and will display any events that are on those models. If any of the selected models are container models (LAN_802_3, IPClassB, etc.), all events on devices contained within the container model will also be displayed.



Splash Window

A “splash” window is displayed when the Event Log is started and will remain displayed until the application is done processing the necessary data to display the Event Log’s main window. This dialog, shown below, contains the copyright date, release version, Event Log icon, and the application name.

Chapter 2

Managing Events with the Event Log

This chapter describes the Event Log main window and details how to use the application's features for managing events.

Event Log Main Window

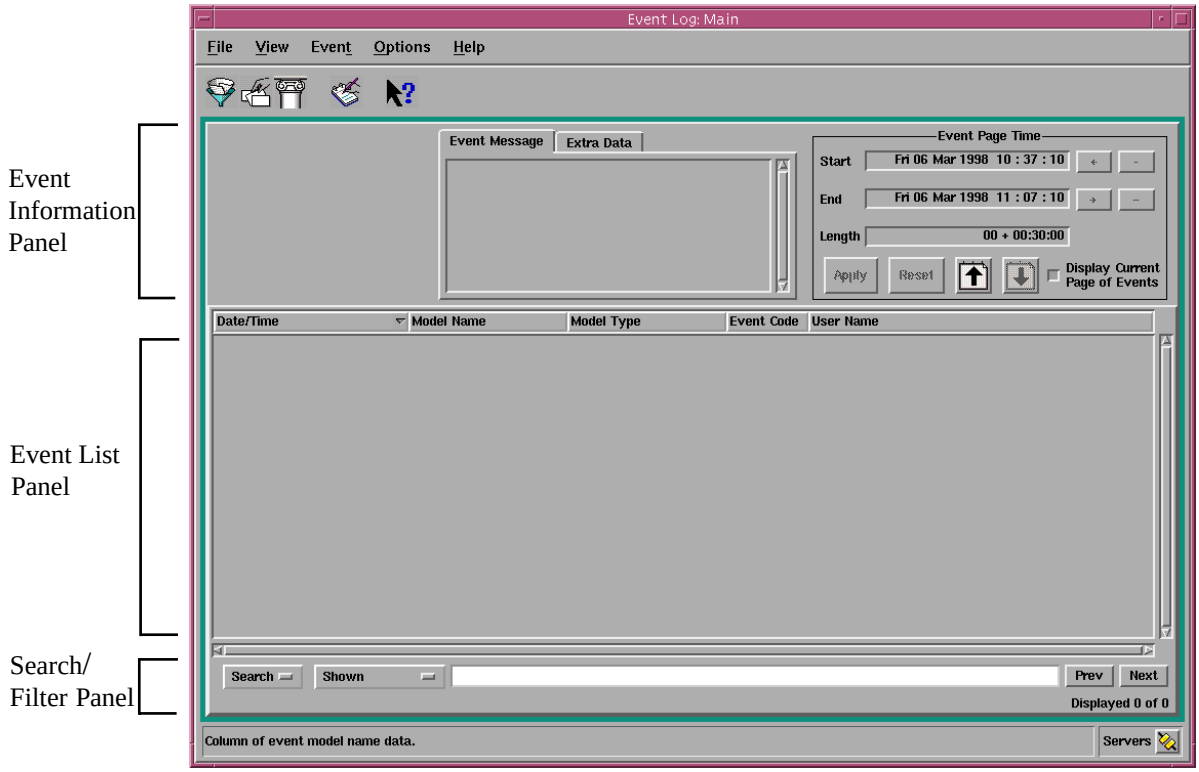
The main Event Log window is composed of the following three panels:

- *Event Information Panel* displays detailed information on the selected event.
- *Event List Panel* displays a list of current, non-filtered events.
- *Filter / Search Panel* filters or searches the list for specific data by column category.

When an event occurs, it is added to the list of events in the Event List Panel of the Event Log (if it does not match the filtering criteria). The related event information is recorded in the Event Log.

Highlight an event in any row of the Event List Panel to display detailed information for that event in the Event Information Panel. Figure 2-1 shows the Event Log Main window.

Figure 2-1. Event Log Main Window



Event Information Panel

The Event Information Panel displays detailed information about the event selected in the Event List.

Device Icon	The icon for the device or application associated with the event (if applicable). The right mouse button activates the icon's drop-down menu from anywhere in the view.
Event Message	Displays the complete event message that corresponds with the event highlighted in the Event List.
Extra Data	Displays all hidden event data fields for the selected event entry.
Event Page Time	Shows the event time range (starting and ending date and time) that is currently displayed in the Event List.
Event Message	Displays the text message related to the event.

Event List Panel

The Event List Panel displays a scrollable list of all events that fit the current filtering and sorting criteria.

Date/Time	Displays the date and time that the event occurred.
Model Name	Displays the model name of the device or application that generated the event.
Model Type	Displays the model type of the device or application that generated the event.
Event Code	Displays the Event Code of the event.
User Name	Displays the User Name associated with the event.

Filter/Search Panel

The Filter/Search Panel displays the number of each type of event that is not filtered.

Filter/ Search	Filters or searches the list for specific data by column category. Select a column category from the Column Choice box at right, then type a string into the text box.
Shown	Displays a pop-up menu where you can choose what column to filter or search on in the list, then type a string into the text box at right. The default setting is “Shown” which filters or searches all visible columns for a match.
Prev	Searches for the previous entry matching the text you searched for.
Next	Searches for the next entry matching the text you searched for.

Event Log Menus

The options that are available from the Event Log menus are described in the following paragraphs.

File
This menu allows you to print and exit from the Event Log.

Print	**Print Setup...**	Displays a dialog where you can set printing options.
	Print Selected...	Prints a selected event or events.
	Print All...	Prints all events.
	Window...	Displays a dialog from which you can print the Event Log window.
Exit	Exits the Event Log.	

View
This menu allows you to view various information about the Event Log application.

Show Tool Bar	Toggles on/off the display of the tool bar.
Show Tool Tips	Toggles on/off the display of the tool bar icon descriptions.
Show Status Help	Toggles on/off the display of status help in the status bar.
Connection Status Information	Selecting this option accesses a dialog that show the status connection of the SpectroSERVER to which you are connected.
Show Filter/Search Panel	Toggles on/off the display of the Filter/Search panel.
Page Up	Pages backward in time by one page time length what is displayed in the Event List.
Page Down	Pages forward in time by one page time length what is displayed in the Event List.
Page to Latest	Displays the most current events page in the Event List.
Filter	Displays the Filter dialog where you can select which events to display or hide in the event list using two configuration panels: Model Type and Miscellaneous (Event Code, Model Name, and User Name).
Sort	Selecting this option displays the Sort dialog, where you can choose three columns that the event list will be sorted by, and specify, for each of those columns, whether the the sort order is ascending or descending. The initial setting of the Event Log has the “Date/Time” column as the first column sorted, with its sort order as “ascending” so that the most current events are displayed at the bottom of the event list, and the least current events at the top.
Column Order	Selecting this option displays the Column Order dialog, where you can select which columns to show or hide in the event list, and arrange the order, left to right, in which they appear. The default order is: Date/Time, Model Name, Model Type, Event Code, User Name.

Event
This menu provides a selection that allows you to enter a text message as an event.

Options
This menu provides a selection for setting the start-up defaults of the Event Log to better suit your needs.

Help
This menu provides selections that allow you to access information about using the Event Log.

What's This	Selecting this option puts you in the "What's This?" help mode, indicated by a question mark added to the cursor. While in this mode, click on an area of the screen or a toolbar button to get help on that item.
About Event Log	Selecting this option displays a dialog that provides application version and copyright information.
OnLine Manuals	Selecting this option accesses SPECTRUM On-Line documentation.

Event Log Toolbar

The toolbar below the Menu allows you to access menu choices quickly by clicking on a toolbar icon (button).

When the cursor is placed on top of a toolbar icon, pop-up text identifying the tool is displayed. Further descriptive text is provided when the What's This? help option is selected and the toolbar button is clicked.

Filter dialog button	Displays the Filter dialog where you can select which events to display or hide in the event list using two configuration panels: Model Type and Miscellaneous (Event Code, Model Name, and User Name).
Sort dialog button	Displays the Sort dialog, where you can choose three columns that the event list will be sorted by, and specify, for each of those columns, whether the the sort order is ascending or descending. The initial setting of the Event Log has the "Date/Time" column as the first column sorted, with its sort order as "ascending" so that the most current events are displayed at the top of the event list, and the least current events at the bottom.
Column Order dialog button	Displays the Column Order dialog, where you can select which columns to show or hide in the event list, and arrange the order, left to right, in which they appear. The default order is: Date/Time, Model Name, Model Type, Event Code, User Name.
What's This? button	Changes the cursor to a question mark which, when clicked on any area of the Event Log window, displays a short description of the selected area.

Dialog Buttons

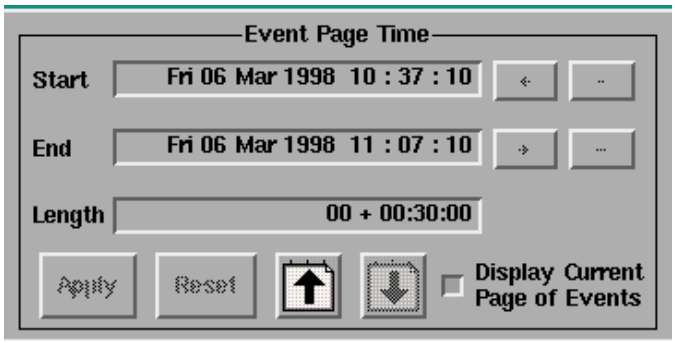
Each Event Log dialog provides all or some of the following buttons.

OK	Sets your new filter parameters and closes the dialog.
Reset	Resets the filter selections to the default parameters, and leaves the dialog open.
Clear	Clears all filters, and leaves the dialog open. If you click **OK**, all alarms in the network will be displayed.
Cancel	Closes the dialog without any changes in the filter settings.

Event Paging Scheme

Events are separated into date and time ranged segments. These segments are referred to as “Pages” and are the basis of how events are viewed in the Event Log. Each page consists of only the events that have occurred within that range of time. The Event Page Time Panel in the mian view shows the event time range (starting and ending date and time) that is currently displayed in the Event List. By default, this range of time is 30 minutes and can be changed by the user.

Only a single event page can be viewed at one time. The ability to view other event pages is provided under the **View** drop-down menu pick or through the Event Page Time Panel shown below. This panel sets the start, end, and range of events to request for.



The Event Page Time Panel includes the following display options:

Start shows the starting date and time of the event range or page currently displayed in the Event List.

End shows the ending date and time of the event range or page currently displayed in the Event List.

Length shows the length of time *(days+hours:minutes:seconds*) currently displayed in the Event List.

Apply requests the event data for the specified time range to be displayed in the Event List.

Reset resets all time entries to the last valid time entries.

Page Up ↑ pages backward in time by one page time length what is displayed in the Event List.

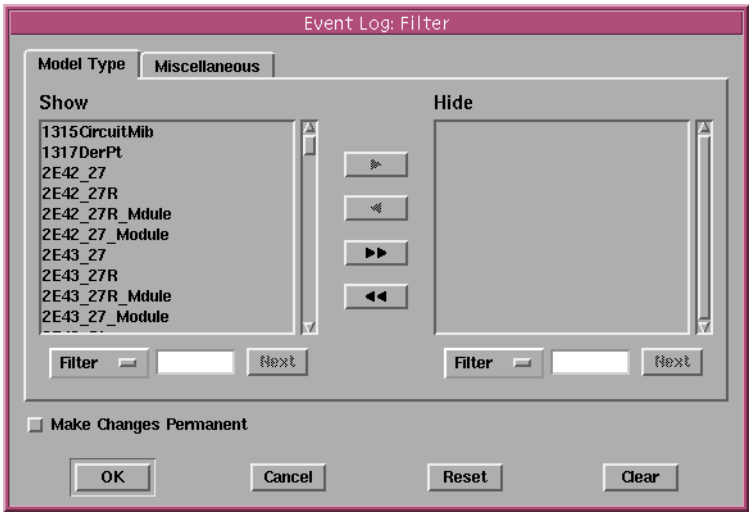
Page Down ↓ pages forward in time by one page time length what is displayed in the Event List.

Display Current Page of Events enables or disables the viewing of the the most current events.

Filtering Events

You can establish the criteria by which the list of events is displayed by setting filters. These filtering subsets make it possible for you to customize your Event Log application to display events appropriate to your networking needs. Only those events that meet all filtering criteria set by the user are displayed.

The Filter dialog, shown below, displays two tabbed pages for setting various types of event filters. The options available with each filter are retrieved from the database that is being used to model your network.



To filter events:

1. Select **Filter...** from the View drop-down menu bar or click the Filter toolbar button.
2. Select the desired filters.

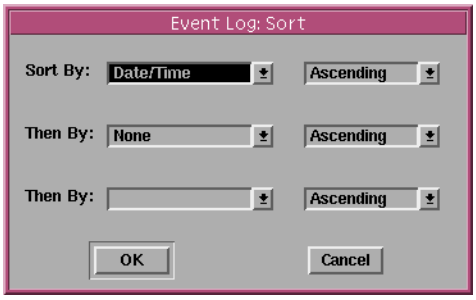
Possible filter options are:

- Model Type
- Model Name
- Event Code
- User Name

The Model Type tab provides access to the Model Type filter. The Miscellaneous tab provides access to the Model Name, Event Code, and User Name filters.

Sorting Events

You can modify the Event Log to best suit your needs by selecting a parameter on which to sort the events through the Sort dialog, shown below. You may only sort on one parameter at a time.



To sort events:

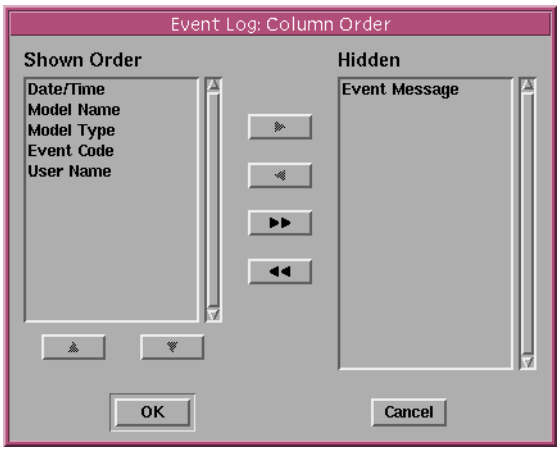
1. Select **Sort...** from the View drop-down menu or click the sort toolbar button.
2. Select the desired sort field.

Possible sorting options are:

- Date/Time
- Model Name
- Model Type
- Event Code
- User Name
- Event Message

Column Order

You can select which columns to show or hide in the Event List, and arrange the order, left to right, in which they appear through the Column Order dialog, shown below.



To change the column order displayed in the Event List:

1. Select **Column Order...** from the View drop-down menu bar or click the Column Order toolbar button.
2. Select the desired column order.

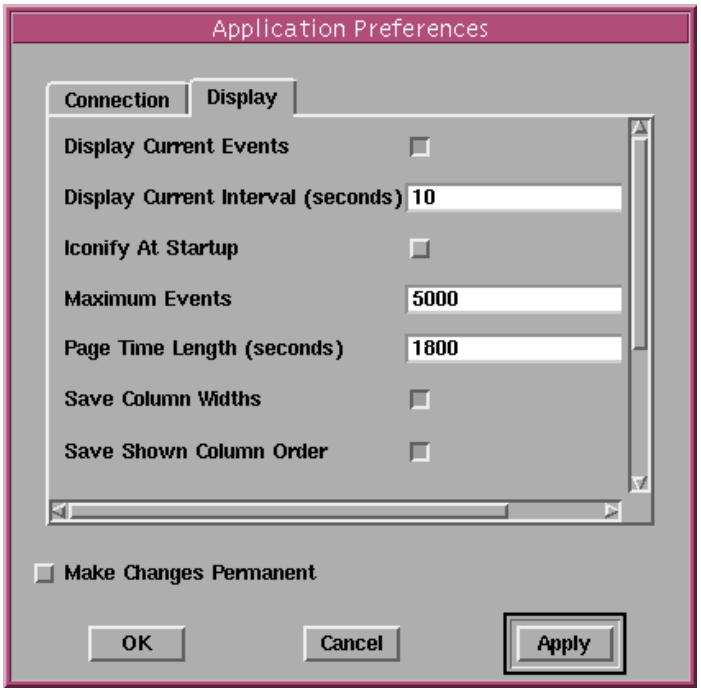
Possible column order show /hide options are:

- Date/Time
- Model Name
- Model Type
- Event Code
- User Name
- Event Message

Columns can also be ordered by selecting the header of a column in the Event List Panel, dragging that selected column to the desired column position desired, and dropping it into that column. The dragged column will be inserted in the list panel between the column in the drop position and the column just before the drop position.

Setting Preferences

You can change the startup defaults of the Event Log to best suit your needs by using the Application Preferences dialog box. The dialog box allows you to customize and save preference settings, which provides persistence from one run of Event Log to another (when you save the changes by using the Make Changes Permanent button). You access the dialog box from the **Options** menu. The illustration below shows the Event Log Application Preferences dialog box with the Display page selected.



To access the Application Preferences dialog box, select **Options** -> **Preferences**. The fields for the five tabbed pages are outlined below. Default settings are shown in parentheses in the first column; deselected signifies a *raised* button, and selected signifies a *recessed* button.

The **Connection** preference page fields are:

Connection Confirmation Interval (60000ms/60 seconds)	The number of milliseconds between requests to the server asking if it is still responding.
Connection Confirmation Timeout (60000ms/60 seconds)	The number of milliseconds to wait for an answer from the server confirming it is still responding.
Connection Retry Timeout (20000)	Time for the client to wait for SpectroSERVER to establish the initial connection before returning an error.
Disable Queue Send (selected)	Disables queue to send request to the SpectroSERVER.
Landscape Handle	Handle of the landscape to connect to. Overrides the -vnm command line argument. Maps to the -lhandle command line argument.
Mail Queue Size (128)	Maximum number of outstanding Mail Service requests that an application can make.
Mail Response Timeout (600000ms)	Minimum time, in milliseconds, Mail Service waits for response from SpectroSERVER before request is canceled.
Max Send Batch Size (512)	Maximum number of requested that are batched together.
Model Handle	Handle of the model(s) to display alarms for. Maps to the -mhandle command line argument.
Route Message Timeout (1000ms)	Time (in milliseconds) to wait for landscape update before canceling requests that cannot be routed.
SpectroGRAPH Machine (defaultMachine)	Hostname on which the target SPECTRUM UI is running.
SpectroGRAPH Machine Port	TCP port number on which the SPECTRUM UI is accepting connections.
SpectroSERVER Machine (defaultMachine)	Hostname on which the target SpectroSERVER is running.
SpectroSERVER Machine Port	TCP port number on which SpectroSERVER is accepting connections.
Unsolicited Queue Size (512)	Maximum number of unsolicited registrations supported.

The **Display** preference page fields are:

Display Current Events (selected)	Determines if the current event page is displayed.
Display Current Interval (seconds)	The time, in seconds, between updates of currently displayed events in the Event List.
Iconify At Startup (deselected)	If selected, the main window is iconified at startup.
Maximum Events (5000)	The maximum number of events that can be shown in the Event List.
Page Time Length (1800)	The number of seconds that comprise the time in the event page.
Save Column Widths (selected)	Saves any changes made to column widths.
Save Shown Column Order (selected)	Saves any changes made to column order.
Save Sorting Criteria (selected)	Saves any changes made to the sorting criteria.
Show No Events Message (deselected)	Determines if the “No Event Message” dialog is displayed when an event page of time has no events.
Table Column Header Font (MediumB)	Font to display the Event List's column headers in.
Table Data Font (MediumB)	Font to display the Event List's data in.
Visible Rows (15)	Indicates the number of rows to display in the Event List.

Iconized Event Log

When the Event Log window is iconized, it appears as an icon containing an clock and a notebook as shown in Figure 2-2. To restore the Event Log window to its original size, double-click on the alarm clock icon or choose **Restore** from the window manager menu.

Figure 2-2. Iconized Event Log